

Spartech Polycom SCR1F-4091

Acrylonitrile Butadiene Styrene

Spartech Polycom

Message:

Spartech SCR1F-4091 is a medium viscosity, flame retardant, ABS resin for injection molding. It is heat stabilized and lubricated for good processing characteristics, and it exhibits good impact and chemical resistance. With the benefit of low moisture absorption, ABS can be used in a variety of environments. Being a very versatile product, SCR1F-4091 can be used for industrial, transportation, sporting goods and electrical/electronic applications.

General Information			
Additive	heat stabilizer		
	Lubricant		
	Flame retardancy		
Features	Low hygroscopicity		
	Impact resistance, good		
	Workability, good		
	Good chemical resistance		
	Thermal Stability		
	Thermal stability, good		
	Lubrication		
	Medium viscosity		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
	Sporting goods		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	40.7	MPa	ASTM D638
Flexural Modulus (23°C)	2210	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	87.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm, NC	V-0		UL 94
3.18 mm, NC	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	87.8	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	171 - 182	°C	
Middle Temperature	199 - 210	°C	
Front Temperature	210 - 221	°C	
Nozzle Temperature	193 - 232	°C	
Processing (Melt) Temp	193 - 232	°C	
Mold Temperature	43.3 - 65.6	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

